

RECEIVED  
CENTRAL FAX CENTER  
JUN 22 2007

AMENDMENT IN THE CLAIMS

Please amend Claims 1 and 2.

Please cancel Claims 9-29 and 50-64.

Please add Claims 65-71.

1. (currently amended) A wireless data transmission method, comprising:  
providing a first data segment;  
verifying that the first data segment ~~includes~~ is a desired hexadecimal constant that indicates transmission code is being sent;  
providing a variable second data segment that indicates making a key or breaking a key;  
providing a third data segment ~~to indicate~~ that indicates a context code; and  
providing a fourth data segment as an error check of the second and third data segments.
2. (currently amended) The method of Claim 1, wherein the ~~desired~~ constant of the first data segment is hexadecimal FF.
3. (original) The method of Claim 1, wherein the second data segment indicates releasing all pressed keys or releasing a single pressed key.
4. (original) The method of Claim 1, wherein the second data segment includes a value of hexadecimal 80.
5. (original) The method of Claim 1, wherein the second data segment is between hexadecimal 81 and hexadecimal FE.
6. (original) The method of Claim 1, wherein the second data segment is between hexadecimal 01 and hexadecimal 7E.
7. (original) The method of Claim 1, wherein the third data segment is between hexadecimal 00 and hexadecimal FE.

LAW OFFICES OF  
MACPHERSON KWOK CHEN  
& HEID LLP  
2402 MICHELSON DRIVE  
SUITE 210  
EVANSTON, IL 60201  
(708) 752-7040  
FAX (708) 752-7049

v1

-2-

Serial No. 10/631,942

8. (original) The method of Claim 1, wherein the fourth data segment is used for a cyclic redundancy checksum algorithm.
- 9.-29. (canceled)
30. (withdrawn) A universal keyboard, comprising:  
a docking structure for accommodating a mobile device;  
an infrared (IR) head clamp for receiving and transmitting data over a wireless link, the IR head clamp capable of being positioned over an IR interface of the mobile device;  
a keypad that is physically coupled to the docking structure, and providing electrical signals representing the keys on the keypad that are depressed by an external agent; and  
a controller circuit receiving the electrical signals and converting the electrical signals into data for transmission by the IR head clamp over the wireless link.
31. (withdrawn) The universal keyboard of Claim 30, wherein the IR head clamp includes an IR head and a clamp body.
32. (withdrawn) The universal keyboard of Claim 31, wherein the IR head includes a light emitting diode (LED).
33. (withdrawn) The universal keyboard of Claim 31, wherein the IR head includes an IR transceiver, an LED emitter, and a PIN diode detector.
34. (withdrawn) The universal keyboard of Claim 31, wherein the IR head is operably coupled to the clamp body by a universal joint.
35. (withdrawn) The universal keyboard of Claim 31, wherein the IR head is operably coupled to the clamp body by one or more rotating joints.
36. (withdrawn) The universal keyboard of Claim 31, wherein the clamp body is capable of being flexed open and closed.

37. (withdrawn) The universal keyboard of Claim 31, wherein the clamp body includes a first member coupled to a second member, the first member and the second member capable of being moved apart and together along a joint.

38. (withdrawn) A universal keyboard, comprising:

a docking structure for accommodating a mobile device;

an arm having a first end mounted on the docking structure at one end by a connector, and having a second freely movable end, such that the second freely movable end of the arm traces an arc centered about the connector over a predetermined range of angles;

an infrared (IR) head mounted on the freely movable end of the arm for receiving and transmitting data over a wireless link;

a keypad that is physically coupled to the docking structure, and providing electrical signals representing the keys on the keypad that are depressed by an external agent; and

a controller circuit receiving the electrical signals and converting the electrical signals into data for transmission by the IR head over the wireless link.

39. (withdrawn) The universal keyboard of Claim 38, wherein the connector includes a gear structure with teeth and a separate teeth structure.

40. (withdrawn) The universal keyboard of Claim 38, wherein the connector includes an electrical wire in the form of a stretchable coil.

41. (withdrawn) The universal keyboard of Claim 38, wherein the IR head is capable of bending and/or rotating in a plurality of angles relative to the arm.

42. (withdrawn) The universal keyboard of Claim 38, wherein the IR head includes a wide-angle LED.

43. (withdrawn) The universal keyboard of Claim 38, wherein the IR head includes an IR transceiver, an LED emitter, and a PIN diode detector.

44. (withdrawn) The universal keyboard of Claim 38, wherein the IR head is capable of receiving and sending data at a high rate of speed.

LAW OFFICES OF  
MACPHERSON KWOK CHEN  
& HEID LLP

2402 MICHELSON DRIVE  
SUITE 210  
IRVINE, CA 92612  
(949) 732-7040  
FAX (949) 732-7049

v1

-4-

Serial No. 10/631,942

45. (withdrawn) The universal keyboard of Claim 38, wherein the IR head is powered by a battery that can be solar-powered and/or recharged.

46. (withdrawn) The universal keyboard of Claim 38, wherein the keys of the keyboard are voice-activated.

47. (withdrawn) The universal keyboard of Claim 38, further comprising an anti-skid surface for mounting the mobile device, the surface being located between the docking structure and the keypad.

48. (withdrawn) The universal keyboard of Claim 38, further comprising an anti-skid surface on the docking structure for mounting the mobile device.

49. (withdrawn) The universal keyboard of Claim 38, further comprising movable holders mounted on the docking structure to accommodate any of a plurality of mobile devices, wherein the holders are made of a rubber material or a metallic material coated with anti-skid material.

50.-64. (canceled)

65. (new) A wireless data transmission method, comprising:  
providing a first data segment;  
verifying that the first data segment is a hexadecimal FF that indicates transmission code is being sent;  
providing a variable second data segment that indicates making a key or breaking a key;  
providing a third data segment that indicates a context code; and  
providing a fourth data segment as an error check of the second and third data segments.

66. (new) The method of Claim 1, wherein the second data segment indicates releasing all pressed keys or releasing a single pressed key.

67. (new) The method of Claim 1, wherein the second data segment includes a value of hexadecimal 80.

68. (new) The method of Claim 1, wherein the second data segment is between hexadecimal 81 and hexadecimal FE.

69. (new) The method of Claim 1, wherein the second data segment is between hexadecimal 01 and hexadecimal 7E.

70. (new) The method of Claim 1, wherein the third data segment is between hexadecimal 00 and hexadecimal FE.

71. (new) The method of Claim 1, wherein the fourth data segment is used for a cyclic redundancy checksum algorithm.

LAW OFFICES OF  
MACPHERSON KWOK CHEN  
& HEID LLP

2403 MICHAELSON DRIVE  
SUITE 210  
IRVINE, CA 92612  
(949) 752-7040  
FAX (949) 752-7049

v1

-6-

Serial No. 10/631,942